

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-26. (Canceled)

27. (Previously presented) An isolated nucleic acid molecule comprising a nucleotide sequence greater than 95% identical to SEQ ID NO:1, said nucleic acid molecule encoding a polypeptide that contains a cyclin domain, wherein the polypeptide functions to maintain normal pairing of homologous chromosomes during meiotic prophase I in meiotic cells of plants.

28. (Previously presented) The nucleic acid molecule of claim 27, wherein the cyclin domain comprises amino acids 361 through 521 of SEQ ID NO:2.

29. (Previously presented) The isolated nucleic acid molecule of claim 28 comprising nucleotides 1238-1720 of SEQ ID NO:1.

30. (Previously presented) The isolated nucleic acid molecule of claim 28 encoding SEQ ID NO:2.

31. (Previously presented) The isolated nucleic acid molecule of claim 29 comprising SEQ ID NO:1.

32. (Previously presented) A vector for transforming a plant cell comprising the nucleic acid of claim 27.

33. (Previously presented) A transformed plant cell comprising the vector of claim 32.

34. (Previously presented) An isolated nucleic acid molecule comprising SEQ ID NO:1.

DOCKET NO.: PSU-0020 (99-2205US)

PATENT

Application No.: 09/821,839

Office Action Dated: July 28, 2004

35. (Previously presented) A vector for transforming a plant cell comprising the nucleic acid of claim 34.

36. (Previously presented) A transformed plant cell comprising the vector of claim 35.